

[CLAIMS]

[Claim 1] A float switch in a washing machine comprising:

a switch body forming an exterior of the float switch;

5 a float in the switch body for moving up/down by washing water;

a sensor for sensing a position of the float; and

a water protector for preventing the washing water from infiltrating to the sensor.

[Claim 2] The float switch as claimed in claim 1, wherein the water protector is

10 a “┐” shaped bracket over an upper surface of the switch body.

[Claim 3] A float switch in a washing machine comprising:

a switch body divided into two sides, having a floating portion for rising up of

leaked washing water, and a sensor space for mounting a sensor for sensing a level of

15 the washing water in the floating portion, both formed therein;

a float in the floating portion for floating on a surface of the washing water;

a sensor in the sensor space for measuring a height of the float; and


a water protector for preventing the washing water from infiltrating into the

sensor space.

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[Claim 4] The float switch as claimed in claim 3, wherein the water protector is

a bracket at one of the divided two sides of the switch body over the sensor space to cover a joining surface of the divided two sides of the switch body from over the joining surface.

5 [Claim 5] The float switch as claimed in claim 4, wherein the bracket has a “” shape.

[Claim 6] The float switch as claimed in claim 3, wherein the floating portion has openings in a side surface for flowing in of the washing water.

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[Claim 7] The float switch as claimed in claim 3, further comprising a soft member connected between one sides of the switch body divided into two sides.

[Claim 8] The float switch as claimed in claim 3, further comprising at least one
15 fastening means for fastening the switch body.

[Claim 9] The float switch as claimed in claim 3, wherein the fastening means includes;

a hook at one of sides of the switch body divided into two sides, and

20 a hook hole opposite to the hook for receiving and holding the hook.

[Claim 10] The float switch as claimed in claim 8, wherein at least one of the fastening means is formed over the sensor space.

[Claim 11] A float switch in a washing machine comprising:

- 5 a switch body divided into two sides, having a floating portion for rising up of leaked washing water, and a sensor space for mounting a sensor for sensing a level of the washing water in the floating portion, both formed therein;
- a float in the floating portion for floating on a surface of the washing water; and
- a sensor in the sensor space for measuring a height of the float,
- 10 wherein one of the two sides of the switch body includes a portion over the sensor space extended to cover a portion of the other side of the switch body over the sensor space.

- [Claim 12] The float switch as claimed in claim 11, further comprising a soft
- 15 member connected between one sides of the switch body divided into two sides.

[Claim 13] The float switch as claimed in claim 11, further comprising at least one fastening means for fastening the switch body.

- 20 [Claim 14] The float switch as claimed in claim 13, wherein the fastening means includes;

a hook at one of sides of the switch body divided into two sides, and
a hook hole opposite to the hook for receiving and holding the hook.

[Claim 15] The float switch as claimed in claim 13, wherein at least one of the
5 fastening means is formed over the sensor space.